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γ-**Methoxy-*γ*-phenyl-Δ*α*-propene**, *α*-chloro- (STRAUS and BERKOW), A., i, 1317.

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p-**Tolualdehyde**-*m*- and -*p*-**chlorophenylhydrazones** (GRAZIANI), A., i, 762.
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4:6-*di*chloro-5-bromo-2:3-*di*hydroxy-, and its diacetate (JANNEY), A., i, 854.
3-chloro-2:4-*di*nitro-, and 4-chloro-3:5-*di*nitro- (BORSCHE and FIEDLER), A., i, 842.
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*di*nitroso-. See 5-Methylbenz*iso*oxadiazole oxide.
o-, *m*-, and *p*-**Tolueneazocarbonylcoumaranones** and their derivatives (MERRIMAN), T., 1854.
m-**Tolueneazoformamide**, 5-bromo-4-hydroxy-, and 4-hydroxy- and its sodium salt (HEILBRON and HENDERSON), T., 1417.
1-*o*-, -*m*-, and -*p*-**Tolueneazo-2-naphthyl ethyl ethers** and their hydrochlorides (CHARRIER and FERRERI), A., i, 535.
1-*o*-, -*m*-, and -*p*-**Tolueneazo-2-naphthyl ethyl and methyl ethers**, salts of (CHARRIER and FERRERI), A., i, 1112.
1-*m*-**Tolueneazo-2-naphthyl methyl ether** and its hydrochloride (CHARRIER and FERRERI), A., i, 535.
1-*o*-, -*m*-, and -*p*-**Tolueneazo-2-naphthyl methyl ethers** and their derivatives (CHARRIER and FERRERI), A., i, 1001.

Toluene compounds, Me = 1.

o- and *p*-**Toluenehydrazocarbonylcoumaranones** (MERRIMAN), T., 1854.

o(?)- and *p*(?)-**Tolueneseleninic acids** (DOUGHTY and ELDER), A., i, 962.

o- and *p*-**Toluenesulphinic acids**, action of, with amines (HEIDUSCHKA and LANGKAMMERER), A., i, 1168.

Toluene-*p*-sulpho-2-anthraquinonylamide and **-methylamide** (ULLMANN and MEDENWALD), A., i, 735.

Toluene-*p*-sulphonethyl-*o*- and -*p*-toluidides (WITT and URMÉNYI), A., i, 360.

Toluene-4-sulphonic acid, 2:3:5-*tri*amino- (HEINEMANN), A., i, 1244.

o- and *p*-**Toluenesulphonic acids**, salts of, with amines (HEIDUSCHKA and LANGKAMMERER), A., i, 1168.

p-**Toluenesulphonic anhydride** (MEYER and SCHLEGL), A., i, 609.

Toluene-*p*-sulphonmethyl-*o*-toluidide (WITT and URMÉNYI), A., i, 360.

p-**Toluenesulphonylacetonitrile**, **αα-***di*bromo-, and **αα-***di*chloro- (TRÖGER and KROSEBERG), A., i, 170.

p-**Toluenesulphonylacetophenone** and its semicarbazone (TRÖGER and BECK), A., i, 631.

1-*p*-Toluenesulphonylamino-2-aminoanthraquinone and its 2-acetyl derivative (JUNGHANS), A., i, 1070.

p-**Toluenesulphonylglycine** (FISCHER and BERGMANN), A., i, 711.

p-**Toluenesulphonylsarcosine** (FISCHER and BERGMANN), A., i, 712.

ω-*p*-Toluenesulphonyl-*p*-toluonitrile (TRÖGER and BECK), A., i, 631.

5-*p*-Toluenesulphonyl-*p*-toluoylbenzoic acid, 2-chloro- (AKTIEN-GESELLSCHAFT FÜR ANILIN-FABRIKATION), A., i, 366.

Toluene-*p*-sulphonyltrimethylammonium dichromate and **platinichloride** (VORLÄNDER and NOLTE), A., i, 1321.

Toluenesulpho-*p*-phenetidide, nitroderivatives of (REVERDIN and FÜRSTENBERG), A., i, 850.

Tolufuroxan. See 5-Methylbenz*iso*oxadiazole oxide.

Toluic acid, 6-chloro-*m*-hydroxy-, antiseptic action of (SIEBURG), A., i, 1023.

o-**Toluic acid**, 3:4-*di*nitro-, and its diethyl ester (WARNER), P., 61.

p-**Toluic acid**, *o*-iodo-, ethyl and methyl esters, amide, nitrile, and hydrazide of (KENNER and WITHAM), T., 235.

o-**Toluidine**, 6-bromo-3-nitro- (BLANKSMA), A., i, 31.

5-iodo-, benzylidene derivative (DAINS, MALLEIS, and MEYERS), A., i, 1097.

4:6-*di*nitro-, acetyl derivative (BRAND and EISENMENGER), A., i, 718.

Toluene compounds, Me = 1.

p-**Toluidine**, 2-bromo-5-nitro- (BLANKSMA), A., i, 31.

m-nitro-, sodium salt (GREEN and ROWE), T., 512.

o- and *p*-**Toluidines**, systems of, with aniline and benzoic acid (BASKOV), A., ii, 1016.

o-, *m*-, and *p*-**Toluidines**, salts of dibasic organic acids with (GRÜNWALD), A., i, 967.

o-**Toluidinoacrylic acid**, 5-iodo-α-cyano-, ethyl ester (DAINS, MALLEIS, and MEYERS), A., i, 1097.

1-Toluidinoanthraquinone, 3-bromo-2-amino- (ULLMANN and MEDENWALD), A., i, 736.

1-*p*-Toluidinoanthraquinone, 2-amino- (BADISCHE ANILIN- & SODA-FABRIK), A., i, 1366.

4-*p*-Toluidino-1:2-anthrathiazole (FARBENFABRIKEN VORM. F. BAYER & CO.), A., i, 759.

β-*m*-Toluidino-αβ-diphenylethane, α-hydroxy- (CROWTHER and MCCOMBIE), T., 29.

2-*p*-Toluidino-4:5-diphenylthiazole and its hydrochloride (v. WALTHER and ROCH), A., i, 202.

o-**Toluidinomethyleneacetoacetic acid**, 5-iodo-, ethyl ester and 5-iodo-*o*-toluidide of (DAINS, MALLEIS, and MEYERS), A., i, 1097.

o-**Toluidinomethylenemalonic acid**, 5-iodo-, ethyl ester, 5-iodo-*o*-toluidide of (DAINS, MALLEIS, and MEYERS), A., i, 1097.

4-*o*-, -*m*-, and -*p*-Toluidinomethylene-3-methyl 5-*iso*oxazolones (DAINS and GRIFFIN), A., i, 1087.

2-*p*-Toluidino-4-phenyl-5-benzylthiazole and its platinichloride and acetyl derivative (v. WALTHER and ROCH), A., i, 200.

α-*p*-Toluidino-γ-phenyl*iso*crotononitrile (TINKLER), T., 895; P., 114.

2-*p*-Toluidino-4-phenylthiazole and 5-amino-, 5-bromo-, 5-nitroso-, and their salts and derivatives (v. WALTHER and ROCH), A., i, 199.

o-**Toluidino-1-phenyltriazole**, amino- (FROMM, HEYDER, JUNG and STURM), A., i, 205.

2-*p*-Toluidino*iso*quinolinium chloride (ZINCKE and WEISSPFENNING), A., i, 391.

3-*p*-Toluidino-*o*-xylene, 4:6-*di*nitro- (CROSSLEY and PRATT), T., 988.

4-*p*-Toluidino-*o*-xylene, 3:5-*di*nitro- (CROSSLEY and PRATT), T., 986.

p-**Toluquinol**, 3:6-*di*chloro-4-bromo- (JANNEY), A., i, 855.

Toluene compounds, Me = 1.

Toluquinone, 2:4:5-*tri*chloro-, formation of (CROWTHER and MCCOMBIE), T., 548; P., 69.

***o*-Toluquinone,** 4:5-*di*bromo-, and its 2-nitrate (ZINCKE and JANNEY), A., i, 854.

4:6-*di*chloro-5-bromo- (JANNEY), A., i, 855.

***p*-Toluquinone,** 3:6-*di*chloro-4-bromo- (JANNEY), A., i, 855.

***o*-Toluquinonedioxime peroxide.** See 5-Methylbenz*iso*xadiazole oxide.

Toluquinonedisemicarbazone (HEILBRON and HENDERSON), T., 1418.

***o*-Toluoyl-*o*-benzoic acid,** 6-bromo-3-amino-, acetyl derivative (AKTIEN-GESELLSCHAFT FÜR ANILIN-FABRIKATION), A., i, 366.

2-nitro-5-amino-, 5-acetyl derivative (AKTIEN-GESELLSCHAFT FÜR ANILIN-FABRIKATION), A., i, 621.

***p*-Toluoylmethyl α- and β-naphthyl ethers** (KUNCKELL and PULS), A., i, 612.

2-*p*-Toluoylmethylthiol-4-methyl-1:6-dihydro-6-pyrimidone (JOHNSON, MORAN, and KOHMANN), A., i, 642.

Tolyl 3-methyl ether, *p*-hydroxy-, preparation of (SACCHARIN-FABRIK AKTIENGESELLSCHAFT VORM. FAHLBERG, LIST & CO.), A., i, 611.

***o*-Tolyl** ether, 5-nitro-, 5:5′-*di*nitro-, and 3:5:3′:5′-*tetra*nitro- (MAILHE), A., i, 261.

5:6-*di*nitro-3-hydroxy- (CAIN and SIMONSEN), P., 380.

***m*-Tolyl** ether, nitro-, *di*nitro-, *di*nitro-*di*hydroxy-, and 2:4:2′:4′- and 2:6:2′:6′-*tetra*nitro- (MAILHE), A., i, 173.

glycide ether (BRENANS), A., i, 722.

***p*-Tolyl** benzyl sulphide and its derivatives (FROMM, SCHÄFER, FORSTER, and v. SCHERSCHEWITZKI), A., i, 359.

ether, *tetra*nitro- (MAILHE), A., i, 355.

glycide ether, *o*-nitro- (BRENANS), A., i, 722.

methyl sulphide di-iodide (FROMM, SCHÄFER, FORSTER, and v. SCHERSCHEWITZKI), A., i, 359.

***o*-, *m*-, and *p*-Tolyl** allyl ethers (CLAISEN and EISLEB), A., i, 1176.

p-toluoylmethyl ether (KUNCKELL and PULS), A., i, 612.

***p*-Tolylacetic acid,** 2:6-*di*nitro- (BORSCHE and FIEDLER), A., i, 842.

***o*- and *m*-Tolylacetic acids,** 4:6-*di*nitro-, and ethyl ester of the latter (BORSCHE and FIEDLER), A., i, 843.

Toluene compounds, Me = 1.

***o*- and *m*-Tolylacetoacetic acids,** 4:6-*di*nitro-, ethyl esters (BORSCHE and FIEDLER), A., i, 843.

***o*- and *m*-Tolylacetone,** 4:6-*di*nitro- (BORSCHE and FIEDLER), A., i, 843.

***p*-Tolylacetylene,** derivatives of (KUNCKELL, ERAS, MÜLLER, and HILDEBRANDT), A., i, 453.

***p*-Tolylacrylic acid,** 3-amino- (SALWAY), T., 1993; P., 287.

Tolyl ε-aminoamyl ketone and its salts and derivatives (BÖTTCHER), A., i, 1359.

1-*p*-Tolyl-1:2:4-*tri*aminonaphthalene and its derivatives (MORGAN and MICKLETHWAIT), T., 74.

3-*p*-Tolyl-1:4-benzoxazine and its hydrochloride (KUNCKELL and PULS), A., i, 612.

2-*p*-Tolylbenzylamino-4-phenyl-5-benzylthiazole (v. WALTHER and ROCH), A., i, 200.

2-*p*-Tolylbenzylamino-4-phenylthiazole and its salts (v. WALTHER and ROCH), A., i, 200.

***as*-*p*-Tolylbenzylthiocarbamide** (v. WALTHER and ROCH), A., i, 200.

***p*-Tolyl *tri*chlorovinyl ketone** (BÖESEKEN and DUJARDIN), A., i, 821.

β-*o*- and *p*-Tolylcinnamic acids and their ethyl esters (RUHEMANN), A., i, 1374.

***m*-Tolylcoumarin,** 3-*o*′*p*-*di*nitro- (BORSCHE and FIEDLER), A., i, 843.

1-*o*- and *p*-Tolyl-2:3-dimethylpyrazoles, 2:5-imino-, and their derivatives (MICHAELIS and KLAPPERT), A., i, 526, 527.

***o*-Tolyldimethyl-ψ-*di*thioketuret** and its derivatives (FROMM, HEYDER, JUNG, and STURM), A., i, 207.

***p*-Tolylene oxide,** *mono*- and *di*-nitro- (MAILHE), A., i, 355.

2:5-Tolylenediamine, 4-nitro- (MORGAN and MICKLETHWAIT), T., 1898.

2:6-Tolylenediamine, 3:5-*di*nitro- (BLANKSMA), A., i, 31.

3:4-Tolylenediamine, 3-benzoyl-derivative (MORGAN and MICKLETHWAIT), T., 1403; P., 232.

2:4- and 3:4-Tolylenediammonium platinibromides (GUTBIER and RAUSCH), A., i, 1158.

3:4-Tolylenediazoimides, 3- and 4-acetyl and -benzoyl derivatives (MORGAN and MICKLETHWAIT), T., 1396; P., 232.

***o*- and *p*-Tolyldimethylammonium** platinibromide (GUTBIER and RAUSCH), A., i, 1158.

Toluene compounds, Me = 1.

1:2:6-Tolylenedimethyldiamine, 3:5-*di*nitro- (BLANKSMA), A., i, 31.

β-*m*-Tolylethyl alcohol and its acetate and chloride (v. BRAUN, GRABOWSKI, and KIRSCHBAUM), A., i, 613.

***o*-Tolylene-2-ethyldiaminesulphonic acid** and its benzylidene derivative (CHEMISCHE FABRIKEN VORM. WEILER-TER MEER), A., i, 1385.

***o*-Tolylguanido-*o*-tolylthiocarbamide** (FROMM, HEYDER, JUNG, and STURM), A., i, 205.

Tolylhydrazine, *di*nitro-, and its hydrochloride (BORSCHE and FIEDLER), A., i, 843.

***m*-Tolylhydrazine**, 5-nitro-4-hydroxy- (FARBWERK MÜHLHEIM VORM. A. LEONHARDT & CO.), A., i, 648.

***m*-Tolylhydrazine-5-sulphonic acid**, 4-hydroxy- (FARBWERK MÜHLHEIM VORM. A. LEONHARDT & CO.), A., i., 648.

***p*-Tolyl*di*-2-hydroxy-3-carbomethoxynaphthylmethane**. See *p*-Xylylidene-bis-2-naphthol-3-carboxylic acid, methyl ester.

***o*-Tolylhydroxylamine**, 4:6-*di*nitro- (BRAND and EISENMENGER), A., i, 718.

2-*p*-Tolylimino-4-phenyl-5-benzyl-3-methylthiazoline and its salts (v. WALTHER and ROCH), A., i, 201.

2-*p*-Tolylimino-4-phenyl-3-benzylthiazoline and its salts (v. WALTHER and ROCH), A., i, 200.

2-*p*-Tolylimino-4-phenyl-3-methylthiazoline and its derivatives (v. WALTHER and ROCH), A., i, 201.

1-Tolyliminopyrine. See 1-Tolyl-2:3-dimethylpyrazole, 2:5-imino-.

***p*-Tolylmalonic acid**, 2:6-*di*nitro-, ethyl ester (BORSCHE and FIEDLER), A., i, 842.

***o*- and *m*-Tolylmalonic acids**, 4:6-*di*nitro-, ethyl esters (BORSCHE and FIEDLER), A., i, 843.

***m*-Tolylmethylcyanamide** (v. BRAUN and KRUBER), A., i. 1334.

β-*m*-Tolyl-α-methylhydracrylic acid, and its salts and ethyl ester (GUBAREV), A., i, 266.

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1-*o*- and -*p*-Tolyl-3-methylpyrazoles, 5-amino-, and their derivatives (MICHAELIS and KLAPPERT), A., i, 526, 527.

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ERRATA.

Vol. XCVIII (Abstr., 1910).

Page	Line	
i, 856	23	*for* "**Pinacone Transformation**" *read* "**Pinacolin Transformation.**"

Vol. C (Abstr., 1911).

i, 870	14	*delete* "m. p. 65°."

Vol. CII (Abstr., 1912).

i, 118	11*	*for* "3:4-Dimethyleneoxychalkone" *read* "3:4-Methylenedioxychalkone."
i, 118	8*	,, "3:4-*Dimethyleneoxydihydrochalkone*" read "3:4-*Methylenedioxydihydrochalkone.*"

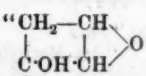
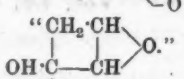
Vol. CII (Abstr., 1912).

i, 576	19	for "3-p-*dimethylaminobenzylidene-2-ketothionaphthen*" read "3-p-*dimethylaminobenzylidene-2-ketodihydrothionaphthen.*"
ii, 1182	12*	,, "birefraction" *read* "birefringence."

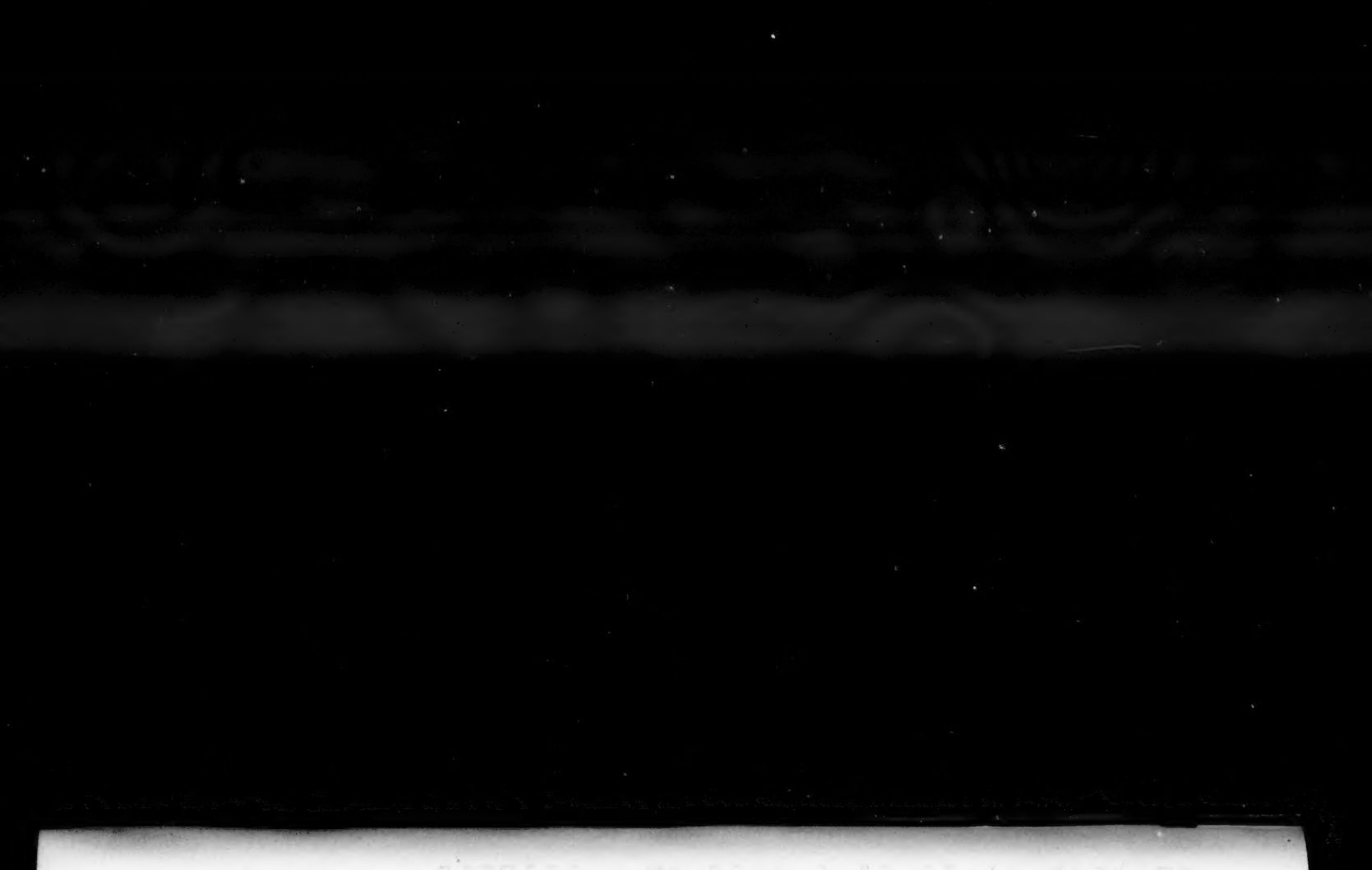
Vol. CIV (Abstr., 1913).

i, 83	2*	*for* "Émile" *read* "Eugène."
i, 84	1	,, "*Pilcarpus*" read "*Pilocarpus.*"
	3	,, "pilocarpiline" *read* "carpilene."
i, 129	8*	,, "**Pathology**" *read* "**Pharmacology.**"
i, 177	8	,, "benzoate (n^{18} 1·5071)" *read* "*cyclo*hexanecarboxylate."
i, 177	9	,, "*cyclo*hexanecarboxylate" ,, "benzoate (n^{18} 1·5071)."
i, 179	19*, 18*	,, "*methyl*cyclo*hexenol*pyruvolactone" read "*methyl*cyclo*hexenol*-glyoxylolactone."
i, 191	8	,, "Spencer" *read* "Spence."
i, 309	3	,, "40°" *read* "46°."
i, 314	8	and ii, 1182, 3* *for* "Traschennikov" *read* "Truschennikov."
i, 534	8*	,, "Oppe" *read* "Oppé."
i, 641	25	,, "**Triphenylethyl**" *read* "**Triphenylmethyl.**"
i, 658	11*	,, "**Relation**" *read* "**Reaction.**"
i, 659	11*	*Authors' names should read* "Alfred W. Bosworth and Lucius L. Van Slyke."
i, 683	21*	*for* "Alfons" *read* "Adolf."
i, 730	10	,, "nitric" *read* "hydrochloric."
i, 887	12*	,, "ethyl" *read* "methyl."
	11*	,, "borneol" *read* "bornylene" (in both instances).
i, 893	11	,, "indo-" *read* "iodo-."
i, 908	17	,, *delete* "of the."
i, 997	3*	,, "$C(C_6H_4)_2Cl\cdot C\overset{N\cdot N}{\underset{O}{<\!\!>}}CCl(C_6H_4)_2$" *read* "$C(C_6H_4)_2Cl\cdot C\overset{N\cdot N}{\underset{O}{<\!\!>}}C\cdot CCl(C_6H_4)_2$."
i, 998	11	,, "$CH(C_6H_4)_2\cdot C\overset{N\cdot N}{\underset{O}{<\!\!>}}CH(C_6H_4)_2$" *read* "$CH(C_6H_4)_2\cdot C\overset{N\cdot N}{\underset{O}{<\!\!>}}C\cdot CH(C_6H_4)_2$."

* From bottom.

Page	Line	
i, 998	14*	*for* "$CCl(C_6H_4)_2{\cdot}C$ $C{\cdot}Cl(C_6H_4)_2$"
		read "$CCl(C_6H_4)_2{\cdot}C$$C{\cdot}CCl(C_6H_4)_2$."
,,	2*	,, "$CCl(C_6H_4)_2{\cdot}C$ $C(C_6H_4)_2Cl$"
		read "$CCl(C_6H_4)_2{\cdot}C$$C{\cdot}C(C_6H_4)_2Cl$."
i, 1057	14*	,, "  " *read* "  ."
i, 1128	7	,, "MENDELL" *read* "MENDEL."
i, 1128	8	,, "WAKEMANN" ,, "WAKEMAN."
i, 1132	22*	,, "L." *read* "E."
i, 1133	19*	,, "A." ,, "E."
i, 1138	25 17*	,, "GILMAN" *read* "GILMOUR."
i, 1349	12* and ii, 1203, 9*	,, "MURDROVCIC" *read* "MUDROVČIĆ."
i, 1393	6*	,, "1:3:6-*triacetyl*-5-*aminohydantoin*" read "5-*acetylamino*-1:3-*diacetylhydantoin*."
,,	3*	,, "1:6-*diacetyl*-5-*aminohydantoin*" read "5-*acetylamino*-1-*acetylhydantoin*."
ii, 66	16*	,, "**Sardaigne**" *read* "**Sardinia**."
	16*	,, "CESARO" *read* "CESÀRO."
	13* 9*	,, "orthose" ,, "orthoclase."
ii, 353	21	,, "**Melitolus**" *read* "**Melilotus**."
,,	,,	,, "**Officinalus**" *read* "**Officinalis**."
ii, 438	9*	,, "RIECKE" *read* "RIEKE."
ii, 474	3*	,, "ANTON" *read* "ANATOLE."
ii, 546	21*	,, "**Albumin**" *read* "**Aluminium**."
ii, 621	15*	,, "690–691" *read* "677-679, 690–691."
ii, 649	9 17*	,, "HOUSTON" *read* "HOUSTOUN."
ii, 650	14	
ii, 822	10	,, "KAMMERLINGH" *read* "KAMERLINGH."
ii, 825	7*	,, "OSTERHELD" *read* "OESTERHELD."
ii, 857	22	,, "GEHLOFF" *read* "GEHLHOFF."
ii, 857	23	,, "**19**" *read* "**14**."
ii, 879	17*	,, "TORN" *read* "HORN."
ii, 991	9*	,, *after* "seven" *delete* "to" *and insert* "minutes at 115–117°. In using the autoclave for conversion the best results were obtained by heating for."
ii, 1076	15*	,, "ERLENMAYER" *read* "ERLENMEYER."
ii, 1098	under **Bart**,	*for* "413" *read* "415."
ii, 1102	col. i. 28*	*for* "**Riecke**" *read* "**Rieke**."
ii, 1141	,, 17*	,, "**Willsdon**" *read* "**Willson**."
ii, 1172	,, 4*	,, "**Kirpetchev**" *read* "**Kirpitchev**."
ii, 1260	col. ii. 21	,, "**Willsdon**" *read* **Willson**."
ii, 1191	under **Mannich**,	*for* "86" *read* "87."

COLLECTIVE INDEX 1903—12 (AUTHORS).

535	25	col. ii, *for* "1909" *read* "1908."

* From bottom.